Patent claims

A hardtop vehicle roof (1) having three rigid roof 1. parts (2 to 4) which can be adjusted between a closed position covering the vehicle interior and 5 opening put-away position up the vehicle and, in the closed position, interior, are situated behind arranged one another the longitudinal direction of the vehicle, and are in each case provided with an adjusting kinematics (8 10 to 10), which is designed as a four-bar kinematics and has a driving link (13; 14; 44 and 45), for adjusting the roof position, and are connected to jointly supported another, and also are body via vehicle the adjusting 15 against the kinematics (9) of a roof part (3), the roof parts (2 to 4), in the put-away position, being situated one above another and forming a package of roof parts, wherein, in the put-away position, in the 20 package of roof parts, with the roof parts (2 to 4) stacked in the same direction with the outside of the roof facing upward, the central roof part (3) is put away lowermost and the two further roof parts (2; 4) are situated above the central roof part (3), wherein the central roof part (3) 25 provided as the roof part which jointly supports the roof parts (2 to 4) against the body, wherein the adjusting drive (12) for adjusting the front roof part (2) and the rear roof part (4) in relation to the central roof part (3) is provided 30 on the central roof part (3) and, following the adjusting kinematics (8; 10) of the front roof part (2) and rear roof part (4), comprises driving which countershaft assemblies (15, 16) of driving countershaft assembly (16) is formed by a 35 four-bar mechanism, the base of which is fixed in position with respect to the central roof part (3) and the links (37; 40) of which, which connect the base and connecting rod, cross over each other in the closed position of the roof parts (2 to 4), one link (37) of the crossing-over links (37; 40) being fixed in position with respect to the driving link (14) of the four-bar kinematics (4) supporting the associated roof part (4).

- The hardtop vehicle roof as claimed in claim 1, 2. wherein one of the driving countershaft assemblies (15) is designed as a five-bar mechanism, the base of which is fixed in position with respect to the 10 central roof part (3) and one of the links (32; 33; 34; 36) of which forms a link (32) which is fixed in position with respect to the driving link (13) of the four-bar kinematics (8) supporting the associated roof part (2), and one forms a link 15 (34) which is fixed in position with respect to an adjusting lever (22) of the adjusting drive (12) connecting the front roof part (2) and the rear roof part (4), that link (34) of the five-bar 20 mechanism which is fixed in position with respect to the one adjusting lever (22) of the adjusting drive (12) being guided via a link (35) which is coupled to the base of said mechanism.
- 25 3. The hardtop vehicle roof as claimed in claim 1 or 2, characterized in that the adjusting drive (12) for the front roof part (11) and the rear roof part (4) has a common driving source (adjusting cylinder 19).
 - 4. The hardtop vehicle roof as claimed in claim 3, characterized in that the driving source is formed by a linear drive, in particular an adjusting cylinder (19).
 - 5. The hardtop vehicle roof as claimed in claim 3 or 4, wherein the adjusting drive (12) has an adjusting arm (17) which is coupled to the central roof part (3) and from which adjusting-lever

30

35

5

connections to the adjusting kinematics (8; 10) supporting the front roof part (2) and the rear roof part (4) are provided.

- 5 6. The hardtop vehicle roof as claimed in claim 2, wherein the driving countershaft assembly (15) situated in the transition to the front roof part (2) is designed as a five-bar mechanism.
- 10 7. The hardtop vehicle roof as claimed in claim 1, wherein the driving countershaft assembly situated in the transition to the front roof part (4) is designed as a four-bar mechanism.
- 15 8. The hardtop vehicle roof as claimed in one of the preceding claims, wherein, in the put-away position, in the package of roof parts the central roof part (3) is put away lowermost, the front roof part (2) is put away in the middle and the rear roof part (4) is put away uppermost.
 - 9. The hardtop vehicle roof as claimed in one of claims 1 to 7, wherein, in the put-away position, in the package of roof parts the central roof part (3) is put away lowermost, the front roof part (2) is put away uppermost and the rear roof part (4) is put away in the middle.

25

10. The hardtop vehicle roof as claimed in one of the preceding claims, wherein, during the transfer of the roof parts (2 to 4) between their closed position and put-away position, the front roof part (2) and the rear roof part (4) can be adjusted simultaneously, in particular in a synchronous, isochronous movement.